

Class : XIth Date : Subject : BIOLOGY DPP No. : 2

## Topic :- Cell the Unit of Life

1.	Chemiosmotic theory of A	bry of ATP synthesis in the chloroplasts and mitochondria is based on					
	a) Proton gradient	5	=	b) Accumulation of K ions			
	c) Accumulation of Na ion	S		d) Membrane potential			
		0	а <i>ј не по</i> р				
2.	Polysome is formed by						
	a) Several ribosomes attached to a single $m$ RNA						
	b) Many ribosomes attached to a strand of endoplasmic reticulum						
	c) A ribosome with several subunits						
	d) Ribosomes attached to		0				
3.	In eukarvotic cell. plasmo	desma is lined by pla	asma membrane.	It encloses tubular extension of			
-	endoplasmic reticulum ca						
	-	Microfilament	c) Tubule	d) Desmotubule			
			o) 1 0.0 0.0				
4.	The factors which set the	li <mark>mit o</mark> f cell size or v	olume are				
	I. nucleo-cytoplasmic or kern-plasma ratio						
	II. rate of metabolic activit						
	III. ability of oxygen and other materials to reach every part of the cell						
		ty of waste products to pass to the outside					
	V. ratio of surface area to the volume of the cell						
	Identify the correct set of						
	5	I and II	c) Only V	d) I, II, III and IV			
	a) in and iv b)		cj only v				
5.	The difference between ro	ough endoplasmic re	eticulum and smo	oth endoplasmic reticulum is			
01	The difference between rough endoplasmic reticulum and smooth endoplasmic reticulum is that rough endoplasmic recticulum						
	a) Does not contain riboso		b) Contains rib	b)Contains ribosomes			
	c) Does not transport prot		d) Transport pi				
	ej boes not transport prot	.01115	aj manopore pr				
6.	Cilia are						
	a) Short (5-10 $\mu$ m) hair-like narrow protoplasmic process						
	b) With sweeping or pendular movements						
	c) More numerous						
	d) All of the above						
	uj Ali Ul ule abuve						

7.	The enzyme DNA polymerase was discovered by						
	a) Kornberg	b) Okazaki	c) Watson and Crick	d) Stahl and Meselson			
8.	Plant cells possess a) Cell wall and central c) Cell wall and plastid		b) Cell wall only d) Cell wall, plastids and large central vacuole				
9.	Which of the following statements are correct?I. Occurrence of different types of tissues, organs and organ system results in division of labourII. A new cell always develops by the division of a pre-existing cellsIII. Cells are totipotentIV. Cell is the smallest unit, capable of independent existence and performing the essentialfunctions of lifeThe correct option isa) I, II and IIIb) I, III and IVc) II, III and IVd) I, II, III and IV						
	Which of the following I. Non-membrane bour II. Absent in plastids an III. Present in the cytop IV. Take part in protein The correct option is a) Only II In prokaryotic cell, I. enveloped genetic m II. ribosomes are absen III. an organised nucleus The correct option is	nd mitochondria plasm and RER n synthesis b) I and II aterial is present nt us is absent	c) I, II, III and IV	d) I, III and IV			
	a) Only I	b) Only II	c) Only III	d) I, II and III			
12.	In a DNA molecule, dis a) 2 nm/20Å	tance between two base b)0.2 nm/2Å	ed is c) 3.4 nm/34Å	d)0.34 nm/3.4Å			
13.	Antiparallel strands of a DNA molecule means that a) One strand turns anti-clockwise b) The phosphate groups of two DNA strands at their ends, share the same position c) The phosphate groups at the start of two DNA strands are in opposite position(pole) d) One strand turns clockwise						

14.	Arrange the following steps in a correct sequence as per Gram's staining technique I. Treatment with 0.5% iodine solution II. Washing with water III. Treatment with absolute alcohol/acetone IV. Staining with weak alkaline solution of crystal violet The correct sequence is									
	a) II→I→IV→III	b) IV→I	→II→III	c) III-	→II→I→IV	d)I→IV→III→II				
15.	In eukaryotes, basic str a) Nucleosome	uctural b) Nucle	_		e and DNA is romosome	d)Lysosome				
16.	Choose the correct statement from the codes given below         I. Separation from extracellular medium allows the cells to maintain its chemical pool, orderliness of structure and reactions in contrast to disorderly distribution and randomly interacting molecules in the extra-cellular medium         II. Cells are unable to recognise one another due to the present of specific chemicals on their surface         III. Cells of plant tissues are often connected with one another through cytoplasmic bridges called plasmodesmata         IV. Different cells of an organism communicate as well as exchange materials with one another a) II and II         b) I and II       c) I, III and IV       d) I, II, III and IV									
17.	DNA multiplication is c a) Translation	alled b) Repli	cation	c) Tra	ansduction	d)Transcription				
18.	Ribosomes are found in a) Cytoplasm and nucleus c) Mitochondria and bacterial cell			b) Golgi complex and nucleus d) Endoplasmic reticulum and Golgi complex						
19.	In protoplasm, fat store in the form of a) Polypeptide b) Triglyceride			c) Pol	ysaccharide	d)Nucleoside				
20.	<ul> <li>b. Spindles are formed by</li> <li>a) Microtubules</li> <li>c) Golgi body</li> </ul>			b) Endoplasmic reticulum d) Peroxisomes						